

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P450925

Luminaire Tested: **GALN-SA1D-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5864 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

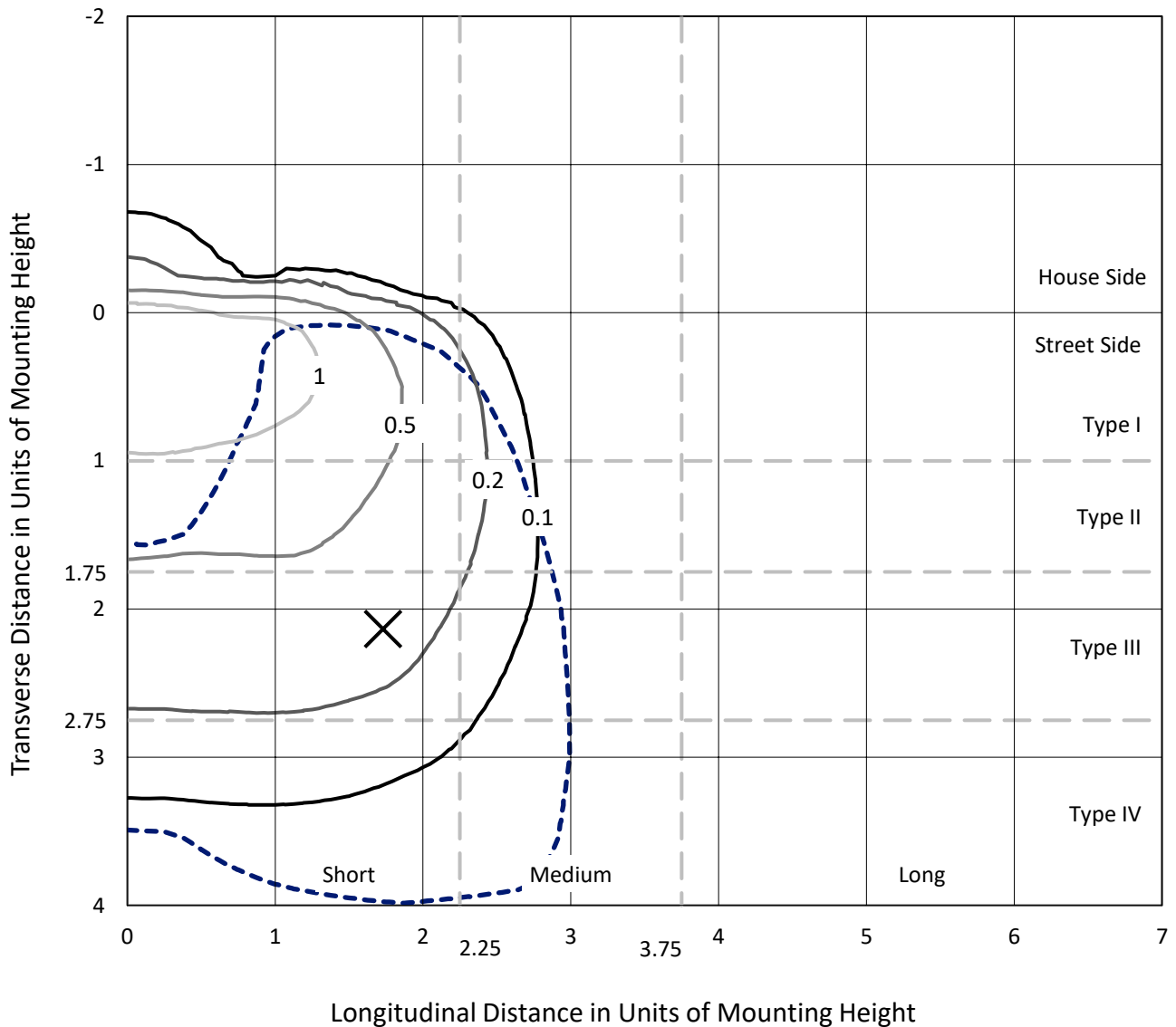
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

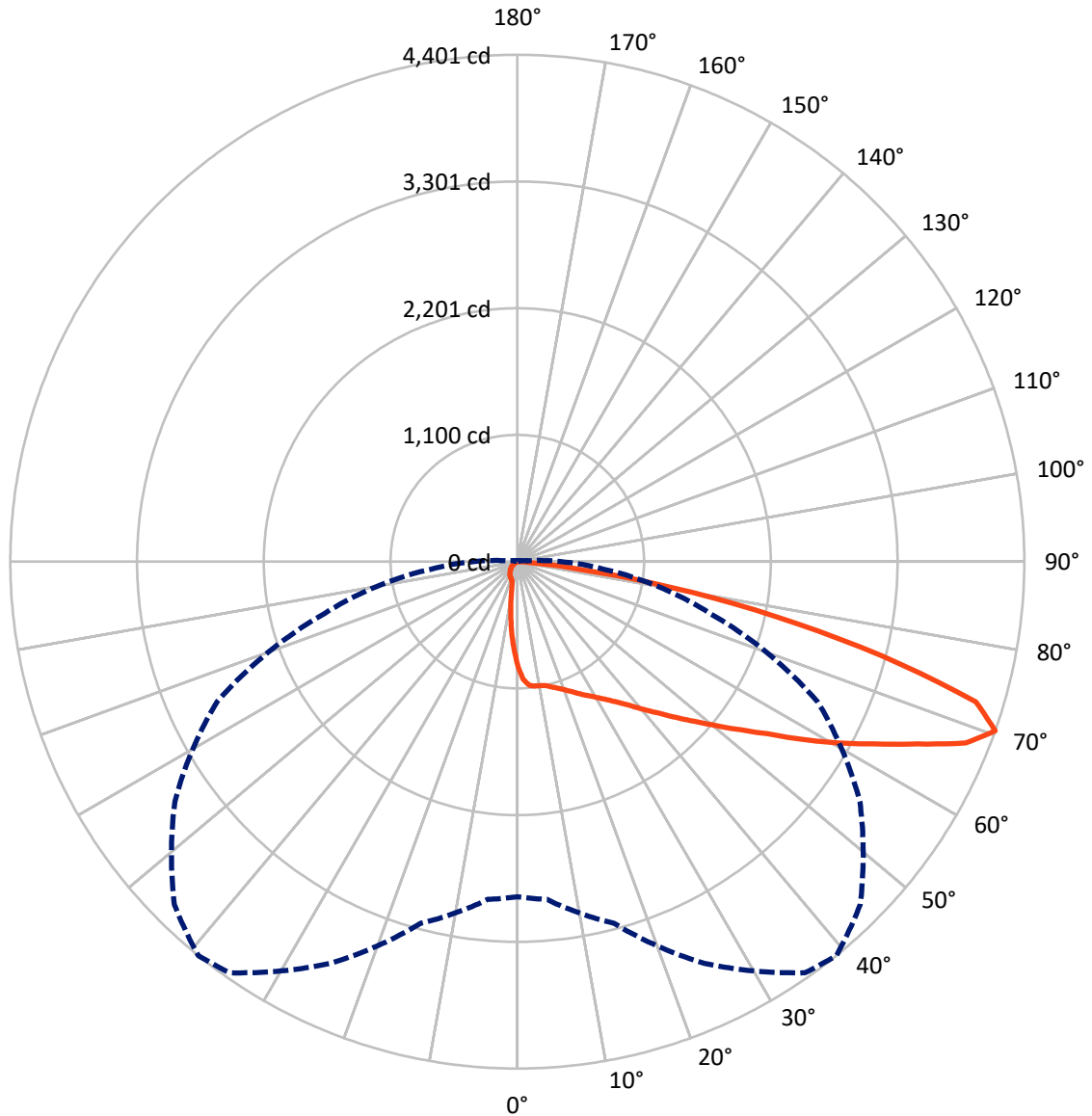
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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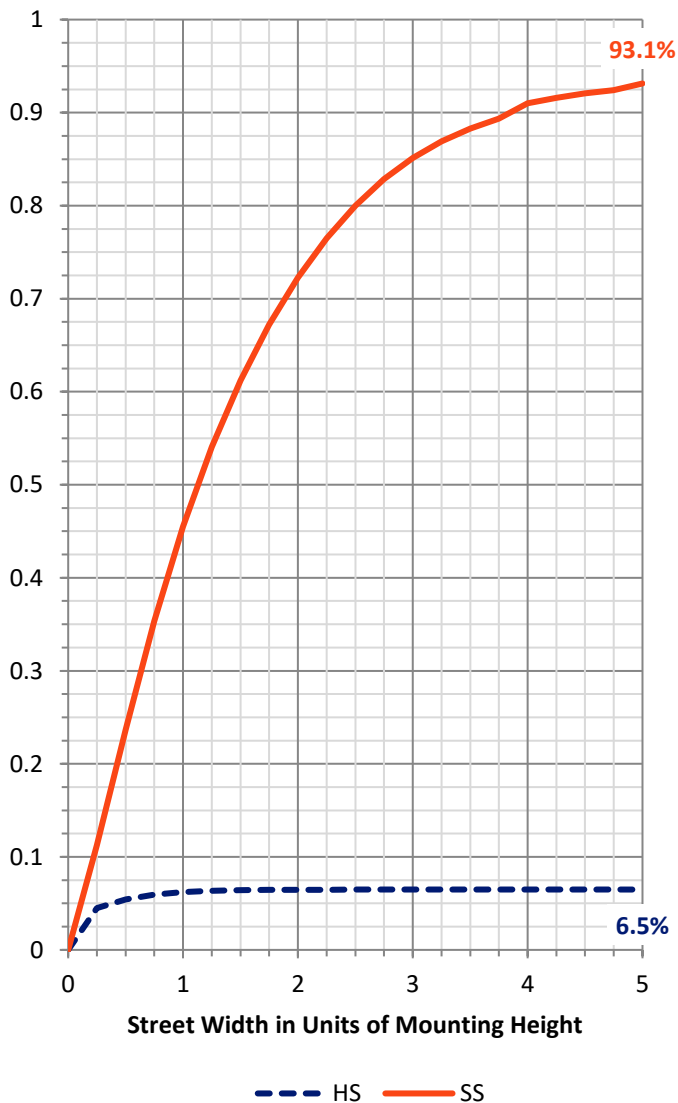
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	382.4	0.0	382.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	5481.6	0.0	5481.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	5864.0	0.0	5864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.3
10°-20°	202.8	3.5
20°-30°	339.8	5.8
30°-40°	526.9	9.0
40°-50°	835.0	14.2
50°-60°	1224.0	20.9
60°-70°	1568.9	26.8
70°-80°	985.8	16.8
80°-90°	102.7	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5864.0	100.0
0°-180°	5864.0	100.0

Coefficient of Utilization



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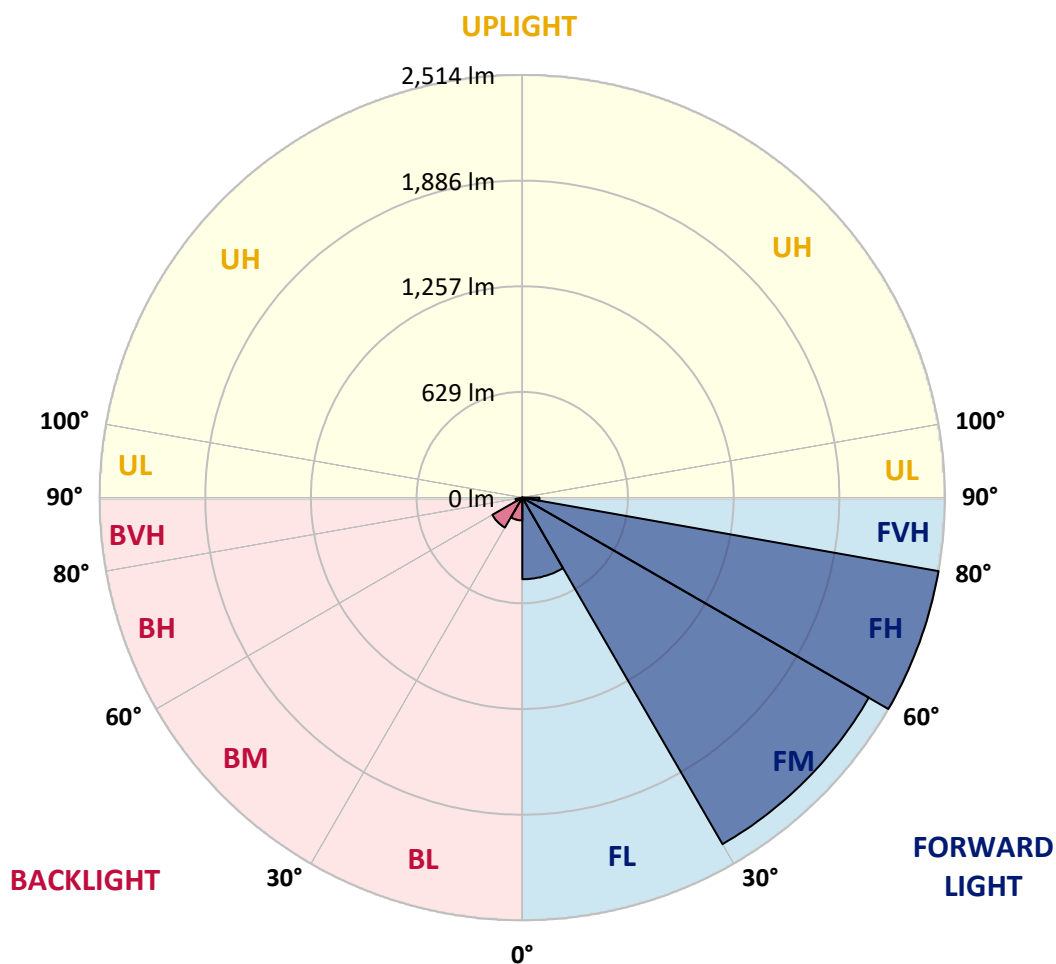
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.2	8.3			
FM (30°-60°)	2380.2	40.6			
FH (60°-80°)	2514.3	42.9			G2/5000
FVH (80°-90°)	101.9	1.7			G2/225
BL (0°-30°)	135.4	2.3	B1/500		
BM (30°-60°)	205.8	3.5	B0/220		
BH (60°-80°)	40.4	0.7	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0
2.5°	1057.2	1053.7	1049.0	1043.4	1027.7	1024.9	1015.5	995.4	971.3	951.6	924.4
5°	1107.3	1109.3	1105.7	1095.9	1084.4	1077.7	1065.9	1034.8	1003.6	963.8	919.3
7.5°	1118.7	1122.6	1118.3	1108.9	1097.8	1090.7	1081.3	1054.5	1018.2	972.9	911.8
10°	1117.5	1122.3	1119.5	1110.8	1101.8	1095.1	1084.8	1063.5	1034.4	986.7	914.2
12.5°	1115.6	1121.9	1121.5	1117.1	1109.6	1104.5	1098.2	1079.3	1052.1	1006.8	927.2
15°	1110.0	1117.9	1125.0	1128.6	1129.0	1129.0	1121.1	1101.0	1075.0	1033.2	944.1
17.5°	1112.4	1121.5	1139.2	1149.4	1156.5	1155.7	1147.5	1125.8	1097.0	1060.4	961.9
20°	1127.0	1139.2	1164.0	1184.5	1191.6	1189.2	1178.2	1153.0	1120.3	1083.6	979.2
22.5°	1162.8	1173.9	1205.0	1229.0	1234.2	1227.9	1212.1	1177.8	1148.3	1108.9	1000.1
25°	1216.4	1229.4	1258.2	1276.3	1276.3	1272.8	1250.7	1210.5	1179.8	1143.9	1027.3
27.5°	1281.5	1292.5	1320.9	1337.0	1327.6	1317.3	1295.2	1246.8	1217.2	1188.1	1060.0
30°	1347.3	1354.4	1384.3	1391.4	1381.5	1368.5	1344.9	1296.4	1270.4	1248.0	1107.3
32.5°	1409.5	1424.9	1449.7	1448.1	1434.7	1428.4	1406.8	1355.1	1340.6	1338.2	1173.5
35°	1471.8	1483.6	1505.7	1511.2	1499.4	1498.2	1482.4	1444.2	1444.6	1460.0	1276.7
37.5°	1525.4	1536.0	1562.0	1574.2	1576.6	1582.5	1576.2	1551.0	1586.8	1629.0	1413.5
40°	1570.3	1585.3	1618.4	1639.6	1664.1	1685.7	1686.9	1692.4	1764.6	1837.1	1592.0
42.5°	1605.4	1626.2	1674.3	1713.7	1769.7	1797.3	1819.3	1849.7	1971.0	2079.4	1802.4
45°	1651.1	1675.1	1735.0	1796.9	1884.3	1929.7	1960.4	2041.6	2213.8	2361.5	2018.3
47.5°	1726.7	1739.3	1800.4	1890.7	2005.7	2070.3	2130.2	2253.2	2474.2	2606.6	2198.0
50°	1824.1	1832.3	1878.4	2003.7	2152.7	2237.8	2347.0	2491.6	2744.6	2810.0	2299.7
52.5°	1931.6	1934.4	1969.1	2128.3	2317.4	2424.6	2546.7	2725.3	2964.8	2955.0	2367.1
55°	2056.5	2052.6	2082.2	2263.4	2512.5	2635.0	2777.3	2964.4	3156.0	3057.8	2405.7
57.5°	2199.6	2189.0	2217.7	2442.7	2762.3	2908.9	3053.5	3170.9	3304.1	3144.1	2424.2
60°	2349.3	2328.1	2362.3	2644.1	3056.6	3195.7	3315.9	3347.5	3460.2	3212.7	2392.3
62.5°	2468.7	2469.1	2533.0	2858.4	3359.3	3481.0	3544.9	3573.2	3594.5	3197.7	2224.4
65°	2655.1	2661.4	2763.5	3156.0	3709.6	3815.2	3858.9	3766.7	3600.4	3011.7	1972.2
67.5°	2847.4	2867.5	3054.3	3565.8	4114.3	4199.4	4143.0	3804.2	3439.7	2587.3	1495.4
70°	2910.1	2943.2	3250.9	3847.9	4357.0	4401.1	4210.4	3629.6	2875.4	1729.9	752.6
72.5°	2666.5	2720.1	3137.8	3745.1	4202.2	4163.9	3767.1	3044.0	1828.0	656.9	229.7
75°	1880.4	1904.1	2607.8	3106.7	3379.8	3271.4	2865.5	1962.4	751.8	184.4	78.8
77.5°	970.9	959.5	1551.0	2061.3	2410.4	2298.1	1876.5	1015.9	284.9	76.8	48.9
80°	502.0	510.3	671.1	1080.1	1471.4	1354.0	1000.5	470.9	151.7	42.6	37.4
82.5°	281.4	264.0	385.8	471.7	688.0	539.5	383.8	333.4	66.2	25.6	35.5
85°	51.2	53.6	211.6	255.0	238.8	151.7	123.7	222.6	19.3	14.2	24.8
87.5°	0.8	0.8	41.0	73.3	46.5	21.3	39.0	31.9	3.9	5.5	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0
2.5°	910.7	895.7	867.7	840.1	805.0	776.3	757.0	736.9	716.4	718.0	722.7
5°	894.9	868.9	813.7	755.4	699.4	649.0	599.4	554.8	536.7	520.1	520.9
7.5°	879.1	842.5	761.7	670.3	585.6	499.7	437.4	386.2	359.0	338.5	332.6
10°	872.0	823.6	714.0	588.3	468.1	374.3	294.4	252.6	220.3	210.0	212.8
12.5°	875.2	814.1	671.1	514.2	371.2	260.9	204.9	183.6	176.5	175.4	174.6
15°	881.1	807.4	628.9	432.3	272.7	193.9	172.2	168.3	167.5	166.7	167.1
17.5°	889.0	801.5	584.0	355.4	209.2	169.4	163.1	161.2	160.8	160.8	160.8
20°	896.9	794.8	533.9	286.9	174.6	160.0	156.0	154.9	154.5	154.5	154.1
22.5°	905.9	788.9	483.1	225.4	160.8	153.3	149.7	149.0	148.6	148.2	148.2
25°	918.9	781.4	429.1	184.4	152.1	147.0	143.4	142.6	142.3	140.7	141.1
27.5°	936.3	775.9	373.6	159.2	144.2	139.1	136.7	135.6	134.8	133.6	134.0
30°	959.9	771.2	314.5	145.4	135.2	130.8	128.5	127.7	126.9	125.7	125.7
32.5°	1000.9	773.1	252.2	134.4	126.9	121.8	119.4	118.6	117.8	116.6	116.6
35°	1062.4	784.6	201.8	124.9	117.0	111.9	109.5	109.5	108.4	106.8	106.4
37.5°	1162.8	813.7	162.0	115.9	107.6	102.8	100.1	99.3	98.1	95.8	95.4
40°	1281.5	859.0	136.3	106.8	98.9	94.2	91.8	89.4	86.3	83.9	83.5
42.5°	1430.4	905.5	118.2	97.7	90.6	86.3	83.5	79.6	74.9	71.7	71.3
45°	1585.7	948.1	106.0	89.4	82.8	79.2	76.1	69.7	63.8	59.9	59.5
47.5°	1701.5	956.0	96.1	81.6	76.1	72.5	68.2	60.3	52.4	48.9	47.7
50°	1756.3	917.7	85.9	73.7	69.4	65.4	59.9	50.8	42.2	37.8	37.0
52.5°	1775.6	851.5	77.6	66.6	62.7	57.9	51.2	41.0	33.1	28.8	28.4
55°	1767.7	768.0	70.1	59.9	54.8	49.3	42.6	32.7	24.4	20.9	20.1
57.5°	1726.3	661.6	62.7	53.2	46.9	41.4	33.9	24.4	16.6	13.4	13.0
60°	1614.8	516.6	55.2	45.7	39.8	33.9	26.8	17.3	10.2	7.5	7.5
62.5°	1426.5	383.4	48.1	38.2	33.5	27.2	18.9	11.0	5.5	3.9	3.5
65°	1192.0	282.9	40.2	32.3	28.0	21.3	13.4	6.7	2.8	1.2	0.8
67.5°	831.8	174.6	33.5	26.4	22.9	15.4	8.3	2.8	1.2	0.0	0.0
70°	377.9	83.1	25.6	20.1	17.3	11.0	4.3	1.6	0.8	0.0	0.0
72.5°	117.4	43.7	18.1	14.6	11.8	7.1	2.4	1.2	0.8	0.0	0.0
75°	54.4	28.0	11.4	7.9	6.7	3.5	1.6	0.8	0.4	0.0	0.0
77.5°	40.6	21.7	6.7	4.3	3.5	2.4	1.2	0.8	0.4	0.0	0.0
80°	35.5	11.0	3.9	2.8	2.0	1.6	0.8	0.4	0.0	0.0	0.0
82.5°	31.9	5.5	2.4	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0
85°	17.3	3.2	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.2	0.8	0.8	0.4	0.4	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)